



FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1900.0260001	APPLICATION NO. 09/809,060
	APPLICANT WILD et al.	
	FILING DATE March 16, 2001	GROUP To be assigned

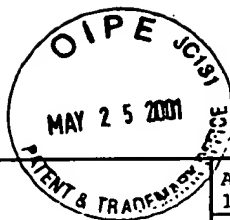
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
32	AA1	5,464,933	11/07/1995	Bolognesi et al.	530	324	06/07/1993
32	AB1	5,656,480	08/12/1997	Wild et al.	435	325	01/27/1995
32	AC1	5,444,044	08/22/1995	Jiang et al.	514	12	03/26/1992
32	AD1	5,840,843	11/24/1998	Jiang et al.	530	350	06/07/1995
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
32	AL1	WO 94/02505	02/03/1994	WIPO			Yes No
32	AM1	WO 94/28920	12/22/1994	WIPO			Yes No
32	AN1	WO 96/19495	06/27/1996	WIPO			Yes No
32	AO1	WO 96/40191	12/19/1996	WIPO			Yes No
32	AP1	WO 88/08429	11/03/1988	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
32	AR	1	Alkhatib, G., et al., "CC CKR5: A RANTES, MIP-1 $\alpha$ , MIP-1 $\beta$ Receptor as a Fusion Cofactor for Macrophage-Tropic HIV-1," <i>Science</i> 272:1955-1958, Association for the Advancement of Science (June 1996).				
32	AS	1	Allan, J.S., et al., "Strong Association of Simian Immunodeficiency Virus (SIVagm) Envelope Glycoprotein Heterodimers: Possible Role in Receptor-Mediated Activation," <i>AIDS Res. Hum. Retroviruses</i> 8:2011-2020, Mary Ann Leibert, Inc., Publishers (December 1992).				
32	AT	1	Bosch, M.L., et al., "Identification of the Fusion Peptide of Primate Immunodeficiency Viruses," <i>Science</i> 244:694-697, Association for the Advancement of Science (May 1989).				

EXAMINER	DATE CONSIDERED 9/22/05
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32	AL2	WO 91/09872	07/11/1991	WIPO			Yes No
32	AM2	WO 92/19742	11/12/1992	WIPO			Abstract Yes No
32	AN2	WO 95/21912	08/17/1995	WIPO			Yes No
32	AO2	WO 96/12023	04/25/1996	WIPO			Yes No
32	AP2	WO 00/06599	02/10/2000	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

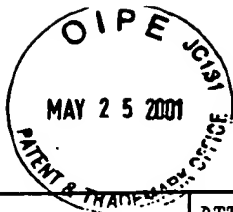
32	AR	2	Broder, C.C., and Dimitrov, D.S., "HIV and the 7-Transmembrane Domain Receptors," Pathobiol. 64:171-179, S. Karger AG (1996).
32	AS	2	Chan, D.C., et al., "Core Structure of gp41 from the HIV Envelope Glycoprotein," Cell 89:263-273, Cell Press (April 1997).
32	AT	2	Chan, D.C., and Kim, P.S., "HIV Entry and Its Inhibition," Cell 93:681-684, Cell Press (May 1998).

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	AP						Yes No

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32	AR	3	Chen, S.S.-L., et al., "Mutational Analysis of the Leucine Zipper-Like Motif of the Human Immunodeficiency Virus Type 1 Envelope Transmembrane Glycoprotein," J. Virol. 67:3615-3619, American Society for Microbiology (June 1993).				
32	AS	3	Chen, S.S.-L., "Functional Role of the Zipper Motif Region of Human Immunodeficiency Virus Type 1 Transmembrane Protein gp41," J. Virol. 68:2002-2010, American Society for Microbiology (March 1994).				
32	AT	3	Chen, S.S.-L., et al., "Mutations in the Leucine-Like Heptad Repeat Sequence of Human Immunodeficiency Virus Type 1 gp41 Dominantly Interfere with Wild-Type Virus Infectivity, J. Virol. 72:4765-4774, American Society for Microbiology (June 1998).				

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32	AR	4	Choe, H., et al., "The $\beta$ -Chemokine Receptors CCR3 and CCR5 Facilitate Infection by Primary HIV-1 Isolates," <i>Cell</i> 85:1135-1148, Cell Press (June 1996).
32	AS	4	Clapham, P.R., et al., "Human Immunodeficiency Virus Type 2 Infection and Fusion of CD4-Negative Human Cell Lines: Induction and Enhancement by Soluble CD4," <i>J. Virol.</i> 66:3531-3537, American Society for Microbiology (June 1992).
32	AT	4	Dalglish, A.G., et al., "The CD4 (T4) antigen is an essential component of the receptor for the AIDS retrovirus," <i>Nature</i> 312:763-767, Macmillan Publishers Ltd. (December 1984).

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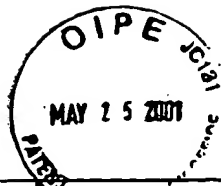
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
32	AR	5	Delwart, E.L., et al., "Retroviral Envelope Glycoproteins Contain a 'Leucine Zipper'-like Repeat," <i>AIDS Res. Hum. Retroviruses</i> 6:703-706, Mary Ann Leibert, Inc., Publishers (June 1990).
32	AS	5	Deng, H., et al., "Identification of a major co-receptor for primary isolates of HIV-1," <i>Nature</i> 381:661-666, Macmillan Publishers Ltd. (June 1996).
32	AT	5	Dimitrov, D.S., "Fusin - a place for HIV-1 and T4 cells to meet," <i>Nat. Med.</i> 2:640-641, Nature Publishing Company (June 1996).

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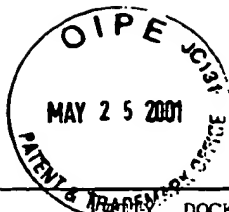
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32	AR	6	Doranz, B.J., et al., "A Dual-Tropic Primary HIV-1 Isolate That Uses Fusin and the $\beta$ -Chemokine Receptors CKR-5, CKR-3, and CKR-2b as Fusion Cofactors," <i>Cell</i> 85:1149-1158, Cell Press (June 1996).
32	AS	6	Dragic, T., et al., "HIV-1 entry into CD4 <sup>+</sup> cells is mediated by the chemokine receptor CC-CKR-5," <i>Nature</i> 381:667-673, Macmillan Publishers Ltd. (June 1996).
32	AT	6	Eiden, L.E., and Lifson, J.D., "HIV interactions with CD4: a continuum of conformations and consequences," <i>Immunol. Today</i> 13:201-206, Elsevier Science Publishers Ltd. (1992).

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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

32	AR	1	Feng, Y., et al., "HIV-1 Entry Cofactor: Functional cDNA Cloning of a Seven-Transmembrane, G Protein-Coupled Receptor," <i>Science</i> 272:872-877, Association for the Advancement of Science (May 1996).
32	AS	1	Freed, E.O., et al., "Characterization of the fusion domain of the human immunodeficiency virus type 1 envelope glycoprotein gp41," <i>Proc. Natl. Acad. Sci. USA</i> 87:4650-4654, National Academy of Sciences of the USA (June 1990).
32	AT	1	Furata, R.A., et al., "Capture of an early fusion-active conformation of HIV-1 gp41," <i>Nat. Struct. Biol.</i> 5:276-279, Nature Publishing Company (April 1998).

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	AN						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
32	AR	8	Gallaher, W.R., et al., "A General Model for the Transmembrane Proteins of HIV and Other Retroviruses," <i>AIDS Res. Hum. Retroviruses</i> 5:431-440, Mary Ann Leibert, Inc., Publishers (August 1989).				
32	AS	8	Lifson, J.D., et al., "Induction of CD4-dependent cell fusion by the HTLV-III/LAV envelope glycoprotein," <i>Nature</i> 323:725-728, Macmillan Publishers Ltd. (October 1986).				
32	AT	8	Lifson, J.D., et al., "AIDS Retrovirus Induced Cytopathology: Giant Cell Formation and Involvement of CD4 Antigen," <i>Science</i> 232:1123-1127, Association for the Advancement of Science (May 1986).				

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
32	AR	2	McDougal, J.S., et al., "Binding of HTLV-III/LAV to T4 <sup>+</sup> T Cells by a Complex of the 110K Viral Protein and the T4 Molecule," <i>Science</i> 231:382-385, Association for the Advancement of Science (January 1986).				
32	AS	2	Salzwedel, K., et al., "A Conserved Tryptophan-Rich Motif in the Membrane-Proximal Region of the Human Immunodeficiency Virus Type 1 gp41 Ectodomain Is Important for Env-Mediated Fusion and Virus Infectivity," <i>J. Virol.</i> 73:2469-2480, American Society for Microbiology (March 1999).				
32	AT	2	Sattentau, Q.J. and Moore, J.P., "Conformational Changes Induced in the Human Immunodeficiency Virus Envelope Glycoprotein by Soluble CD4 Binding," <i>J. Exp. Med.</i> 174:407-415, The Rockefeller University Press (August 1991).				

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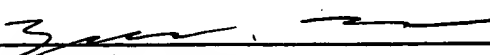


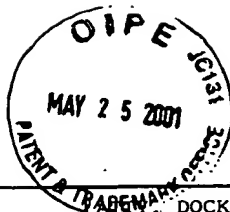
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32	AR	10	Slepushkin, V.A., et al., "Investigation of Human Immunodeficiency Virus Fusion Peptides. Analysis of Interrelations Between Their Structure and Function," <i>AIDS Res. Hum. Retroviruses</i> 8:9-18, Mary Ann Liebert, Inc., Publishers (January 1992).
32	AS	10	Weissenhorn, W., et al., "Atomic structure of the ectodomain from HIV-1 gp41," <i>Nature</i> 387:426-430, Macmillan Publishers Ltd. (May 1997).
32	AT	10	Wild, C., et al., "A synthetic peptide inhibitor of human immunodeficiency virus replication: Correlation between solution structure and viral inhibition," <i>Proc. Natl. Acad. Sci. USA</i> 89:10537-10541, National Academy of Sciences of the USA (November 1992).

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	AO						Yes No
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32	AR	11	Wild, C.T., et al., "Peptides corresponding to a predictive $\alpha$ -helical domain of human immunodeficiency virus type 1 gp41 are potent inhibitors of virus infection," <i>Proc. Natl. Acad. Sci. USA</i> 91:9770-9774, National Academy of Sciences of the USA (October 1994).				
32	AS	11	Wild, C., et al., "Propensity for a leucine zipper-like domain of human immunodeficiency virus type 1 gp41 to form oligomers correlates with a role in virus-induced fusion rather than assembly of the glycoprotein complex," <i>Proc. Natl. Acad. Sci. USA</i> 91:12676-12680, National Academy of Sciences of the USA (December 1994).				
32	AT	11	Xu, J-Y., et al., "Epitope Mapping of Two Immunodominant Domains of gp41, the Transmembrane Protein of Human Immunodeficiency Virus Type 1, Using Ten Human Monoclonal Antibodies," <i>J. Virol.</i> 65:4832-4838, American Society for Microbiology (September 1991).				

EXAMINER 	DATE CONSIDERED 7/22/05
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32	AR	12	Co-pending U.S. Patent Application No. 09/480,336.
32	AS	12	Co-pending U.S. Patent Application No. 09/779,451.
	AT		

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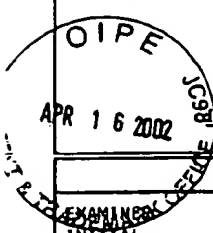
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32	AT	<u>12</u>	Kliger, Y. and Shai Y., "Inhibition of HIV-1 Entry Before gp41 Folds Into its Fusion-active Conformation, " <i>J. Mol. Biol.</i> 295:163-168, Academic Press, Ltd. (January 2000)
32	AR	<u>13</u>	LaCasse, R.A. <i>et al.</i> , "Fusion-Competent Vaccines: Broad Neutralization of Primary Isolates of HIV, " <i>Science</i> 283:357-362, American Association for the Advancement of Science (1999)
32	AS	<u>13</u>	Rabinstein, M., and Shin, Y-K., "A Peptide from the Heptad Repeat of Human Immunodeficiency Virus gp41 Shows both Membrane Binding and Coiled-Coil Formation," <i>Biochemistry</i> 34:13390-13397, American Chemical Society (1995)

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	SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	APPLICANT Wild <i>et al.</i>	
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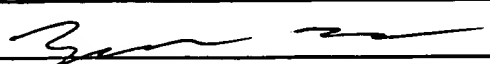
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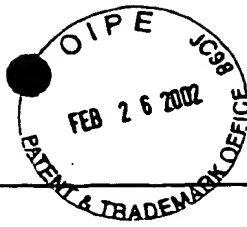
## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

32	AT	13	Weng, Y., and Weiss, C.D., "Mutational Analysis of Residues in the Coiled-Coil Domain of Human Immunodeficiency Virus Type 1 Transmembrane Protein gp41, "J. Virol. 72:9676-9682, American Society for Microbiology/DC (1998)

EXAMINER 	DATE CONSIDERED 9/22/05
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	



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FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1900.0260001	APPLICATION NO. 09/883,060
	APPLICANT WILD <i>et al.</i>	
	FILING DATE March 16, 2001	GROUP 1646

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1						
	AB1						
	AC1						
	AD1						
32	AE1	5,817,767	10/06/1998	Allaway <i>et al.</i>	530	387.3	02/24/1993
	AF1						
	AG1						
	AH1						
	AI1						
	AJ1						
	AK1						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1						Yes No
	AM1						Yes No
	AN1						Yes No
	AO1						Yes No
	AP1						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	1		
AS	1		
AT	1		

EXAMINER <i>32</i>	DATE CONSIDERED <i>9/22/05</i>
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